EAST Search History

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| S1 | 8 | tsutsumi.in. and $4speaker and partition | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/02/06 17:08 |
| S2 | 224 | (381/335).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/11/16 18:47 |
| S3 | 202 | (381/351,352).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/11/16 18:52 |
| S4 | 977 | (381/345).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/12/08 15:55 |

| S5 | 357 | (381/333,336).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/11/16 18:39 |
| S6 | 18 | S2 and (partition same $4speak$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/11/16 18:44 |
| S7 | 25 | S3 and (partition same $4speak$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/12/08 15:55 |
| S8 | 47 | S4 and (partition same $4speak$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/11/16 18:41 |
| S9 | 17 | S5 and (partition same $4speak$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/11/16 18:40 |
| S10 | 6 | 381/333-352.ccls. and (partition wall) same (right near2 angle) same $4speak$2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/12/08 15:58 |

| S11 | 15 | 381/333-352.ccls. and (partition wall) same (right near2 angle) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/12/08 15:58 |
|-----|-----|-----|-----|-----|-----|-----|
| S12 | 358 | (381/333,336).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/12/08 16:16 |
| S13 | 4 | ("2798122").URPN. | USPAT | OR | OFF | 2006/12/08 16:25 |
| S14 | 6 | ("2866514").URPN. | USPAT | OR | OFF | 2006/12/08 16:30 |
| S15 | 8 | tsutsumi.in. and $4speaker and partition | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/12/08 16:38 |
| S16 | 1 | S15 and middle and high and divi$3 and partition | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/12/08 16:38 |
| S17 | 8 | tsutsumi.in. and $4speaker and partition | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/02/21 11:00 |

| S18 | 1 | S17 and trapezoid and diaphragm and tilt$2 and angle and "80" and "15" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/01/26 14:54 |
| S19 | 8 | tsutsumi.in. and $4speaker and partition | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/01/26 14:55 |
| S20 | 1 | S19 and trapezoid and diaphragm and wood and surfaces and lacquer | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/01/26 14:55 |
| S21 | 1 | tsutsumi.in. and $4speaker and partition and (low same middle same frequency) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/02/06 16:14 |
| S22 | 1 | tsutsumi.in. and $4speaker and partition and (low same middle same high same frequency) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/02/06 16:24 |
| S23 | 0 | "381"/$.ccls. and ((first upper) adj3 (compartment section chamber) adj3 (mid$3 with high with frequenc$3)) same ((second lower) adj2 (compartment section chamber) adj2 (mid$3 with low with frequenc$3)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/02/06 17:21 |

| S24 | 1 | ("2866514").PN. | USPAT | OR | OFF | 2008/02/06 16:53 |
| S25 | 7 | ("2866514").URPN. | USPAT | OR | OFF | 2008/02/06 16:53 |
| S26 | 3 | tsutsumi.in. and $4speaker and partition and baffle | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/02/06 17:09 |
| S27 | 0 | "381"/$.ccls. and (partition wall) with (right adj2 angle) with (center near2 $4spaek$2) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/02/06 17:22 |
| S28 | 0 | "381"/$.ccls. and (partition wall) with (center near2 $4spaek $2) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/02/06 17:22 |
| S29 | 1015 | (381/345).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/02/06 17:22 |
| S30 | 608 | (381/160,349,350).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/02/11 10:30 |

| S32 | 70 | 381/333-336,345,160,349-352.ccls. and (partition wall) same $4speaker same (ports ducts) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/02/11 10:33 |
|-----|-----|-----|-----|-----|-----|-----|
| S33 | 21 | 381/333-336,345,160,349-352.ccls. and $4speaker same ((regions chambers sections) with (ports ducts)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/02/11 10:41 |
| S34 | 1227 | (181/148,154-156).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/02/20 15:38 |
| S35 | 10 | ("5010977").URPN. | USPAT | OR | OFF | 2008/02/21 10:35 |
| S36 | 0 | ("(partition$3near2wall)near20$4speak$2near20 (rightadjangle)").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/02/21 10:42 |
| S37 | 1 | (partition$3 near2 wall) near20 $4speak$2 near20 (right adj angle) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/02/21 10:42 |

| S38 | 0 | (partition$3 near2 wall) near20 $4speak$2 near20 ("90" adj2 degree$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/02/21 10:46 |
| S39 | 2 | (partition$3) near20 $4speak$2 near20 (right adj angle) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/02/21 10:46 |
| S40 | 10 | ("5010977").URPN. | USPAT | OR | OFF | 2008/02/28 11:34 |
| S41 | 1017 | (381/345).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/02/28 12:31 |
| S42 | 392 | (381/333,336).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/02/28 14:07 |
| S43 | 1 | chatani.in. and speaker and duct | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/02/28 15:06 |

| S44 | 2 | 381/333-336,345,160,349-352.ccls. and $4speaker near10 mount$3 near10 center near10 baffle | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/02/28 15:26 |
|---|---|---|---|---|---|---|
| S45 | 11 | "381"/$.ccls. and $4speaker near10 mount$3 near10 center near10 baffle | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/02/28 15:29 |
| S46 | 12 | "181"/$.ccls. and $4speaker near10 mount$3 near10 center near10 baffle | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/02/28 15:30 |
| S47 | 45 | "381"/$.ccls. and $4speaker near10 center near10 baffle | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/02/28 15:32 |
| S48 | 24 | 381/333-336,345,160,349-352.ccls. and center near3 baffle | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/02/28 15:53 |
| S49 | 141 | (381/353).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/03/11 17:30 |

| S51 | 1622 | (181/155,156,198,199).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/03/11 17:32 |
|-----|------|------|------|------|------|------|
| S52 | 0 | 181/155,156,198,199,148,154.ccls. and emit$4 near20 (low adj2 frequency) near20 (high adj frequency) near2 ((mid middle) adj frequency) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/03/13 10:26 |
| S53 | 13 | 181/155,156,198,199,148,154.ccls. and (low adj frequency) near20 (high adj frequency) near20 ((mid middle) adj frequency) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/03/13 10:26 |
| S54 | 30 | 381/345,346,351-353,160,349,350,333,336.ccls. and (low adj frequency) near20 (high adj frequency) near20 ((mid middle) adj frequency) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/03/13 10:30 |
| S55 | 2773 | (381/333-336,345,346,160,349-353).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/03/13 10:52 |
| S56 | 1 | tsutsumi.in. and $4speaker and partition and (partition near10 center near10 opening near10 speaker) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/07/18 11:09 |

| S57 | 1 | tsutsumi.in. and $4speaker and partition and (partition near10 center near10 diaphragm near10 speaker) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/07/18 11:09 |
| S58 | 1 | tsutsumi.in. and $4speaker and partition and (partition near10 right near10 angle near10 center near10 speaker) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/07/18 11:10 |
| S59 | 1 | tsutsumi.in. and $4speaker and partition and (center near10 opening near10 $4speaker) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/08/19 13:26 |
| S60 | 0 | tsutsumi.in. and $4speaker and partition and (center near10 diapraghm near10 $4speaker) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/08/19 13:26 |
| S61 | 0 | tsutsumi.in. and $4speaker and partition and (center near10 diaphraghm) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/08/19 13:27 |
| S62 | 1 | tsutsumi.in. and $4speaker and partition and (center near10 diaphragm) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/08/19 13:27 |

| S63 | 1 | tsutsumi.in. and $4speaker and partition and virtual | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/11/13 09:47 |
| S64 | 1 | tsutsumi.in. and $4speaker and partition and virtual and point | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/11/13 09:48 |
| S65 | 1 | tsutsumi.in. and $4speaker and partition and (center near2 point) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/11/13 09:52 |
| S66 | 949 | (381/335,351,352,333,336,353).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/12/19 18:01 |
| S67 | 1652 | (181/155,156,198,199).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/12/19 18:02 |
| S68 | 1247 | (181/148,154-156).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/12/19 18:02 |

| S69 | 1044 | (381/345).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2008/12/19 18:02 |
| S70 | 2269 | (381/333,336,335,351,352,345,349,350,160).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2009/04/21 16:19 |
| S71 | 1662 | (181/155,156,198,199).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2009/04/21 16:19 |
| S72 | 8 | tsutsumi.in. and $4speaker and partition | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2009/04/21 16:19 |
| S73 | 976 | (381/335,351,352,333,336,353).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2009/06/07 17:38 |
| S74 | 1662 | (181/155,156,198,199).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2009/06/07 17:38 |

| S75 | 1257 | (181/148,154-156).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2009/06/07 17:38 |
| S76 | 2275 | (381/333,336,335,351,352,345,349,350,160).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2009/06/07 17:38 |
| S77 | 2327 | (381/333,336,335,351,352,345,349,350,160).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2009/12/10 14:52 |
| S78 | 2136 | (181/148,154-156,198,199).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2009/12/10 14:52 |
| S79 | 2327 | (381/333,336,335,351,352,345,349,350,160).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2009/12/10 16:52 |
| S80 | 1 | S79 and (port opening) near10 bottom near10 (enclosure cabinet) near20 area near20 cross-sectional | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2009/12/10 16:52 |

| S81 | 1 | tsutsumi.in. and $4speaker and partition and (trapezoid$2 near10 cross-section$2 near10 diaphragm) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2009/12/10 17:21 |

## EAST Search History (Interference)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| L1 | 1584 | (181/148,154-156,198,199).CCLS. | US-PGPUB; USPAT; UPAD | OR | OFF | 2009/12/13 18:44 |
| L2 | 0 | L1 and (port$3 opening$1) near10 bottom near10 (cabinet enclosure) near20 "80" near20 ("%") near20 cross-sectional near20 area | US-PGPUB; USPAT; UPAD | OR | OFF | 2009/12/13 18:44 |
| L3 | 1484 | (381/333,336,335,351,352,345,349,350,160).CCLS. | US-PGPUB; USPAT; UPAD | OR | OFF | 2009/12/13 18:44 |
| L4 | 0 | L3 and (port$3 opening$1) near10 bottom near10 (cabinet enclosure) near20 "80" near20 ("%") near20 cross-sectional near20 area | US-PGPUB; USPAT; UPAD | OR | OFF | 2009/12/13 18:44 |
| L5 | 0 | L3 and (port$3 opening$1) near10 bottom near10 (cabinet enclosure) near20 "80" near20 ("%" percent) near20 cross-sectional near20 area | US-PGPUB; USPAT; UPAD | OR | OFF | 2009/12/13 18:45 |
| L6 | 0 | L1 and (port$3 opening$1) near10 bottom near10 (cabinet enclosure) near20 "80" near20 ("%" percent) near20 cross-sectional near20 area | US-PGPUB; USPAT; UPAD | OR | OFF | 2009/12/13 18:45 |

| S82 | 0 | "L2" and (port opening) near10 bottom near10 (enclosure cabinet) near20 area near20 cross-sectional | US-PGPUB; USPAT; UPAD | OR | OFF | 2009/12/10 16:52 |
|-----|------|----|----|----|----|----|
| S83 | 1584 | (181/148,154-156,198,199).CCLS. | US-PGPUB; USPAT; UPAD | OR | OFF | 2009/12/10 16:52 |
| S84 | 0 | "L5" and (port opening) near10 bottom near10 (enclosure cabinet) near20 area near20 cross-sectional | US-PGPUB; USPAT; UPAD | OR | OFF | 2009/12/10 16:52 |
| S85 | 1487 | (381/333,336,335,351,352,345,349,350,160).CCLS. | US-PGPUB; USPAT; UPAD | OR | OFF | 2009/12/10 16:53 |
| S86 | 0 | "L7" and (port opening) near10 bottom near10 (enclosure cabinet) near20 area near20 cross-sectional | US-PGPUB; USPAT; UPAD | OR | OFF | 2009/12/10 16:53 |
| S87 | 4 | "L7" and (port opening) near10 bottom near10 (enclosure cabinet) | US-PGPUB; USPAT; UPAD | OR | OFF | 2009/12/10 16:53 |
| S88 | 8 | "L5" and (port opening) near10 bottom near10 (enclosure cabinet) | US-PGPUB; USPAT; UPAD | OR | OFF | 2009/12/10 16:53 |
| S89 | 9 | "L5" and (port$1 opening$1) near10 bottom near10 (enclosure cabinet) | US-PGPUB; USPAT; UPAD | OR | OFF | 2009/12/10 17:13 |

| S90 | 4 | "L7" and (port$1 opening$1) near10 bottom near10 (enclosure cabinet) | US-PGPUB; USPAT; UPAD | OR | OFF | 2009/12/10 17:13 |

**12/13/2009 6:46:12 PM**
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